RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _____ 10/578,174 A

Source: _____ IFWP

Date Processed by STIC: _____ 08/8/2006

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: _10/518, 174 A_   CRF Edit Date: _08/08/2006_
                                          Edited by: _DA_

____ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

____ Corrected the SEQ ID NO. Sequence numbers edited were:

_____

____ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

_____

____ Deleted: ___ invalid beginning/end-of-file text ; ___ page numbers

____ Inserted mandatory headings/numeric identifiers, specifically:

_____

____ Moved responses to same line as heading/numeric identifier, specifically:

_____

____ Other: Corrected <400> numeric field Identifier

_____

_____

Revised 09/09/2003

RAW SEQUENCE LISTING DATE: 08/08/2006
PATENT APPLICATION: US/10/518,174A TIME: 13:53:28

Input Set : N:\DA\10518174.raw.txt
Output Set: N:\CRF4\08082006\J518174A.raw

```
      3 <110> APPLICANT: Aston University
      5 <120> TITLE OF INVENTION: Methods of Producing DNA and Protein Libraries
      7 <130> FILE REFERENCE: W071488PPC
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/518,174A
C--> 10 <141> CURRENT FILING DATE: 2004-12-13
     12 <150> PRIOR APPLICATION NUMBER: GB0213816.2
     13 <151> PRIOR FILING DATE: 2002-06-14
     15 <160> NUMBER OF SEQ ID NOS: 13
     17 <170> SOFTWARE: PatentIn version 3.1
     19 <210> SEQ ID NO: 1
     20 <211> LENGTH: 52
     21 <212> TYPE: DNA
     22 <213> ORGANISM: Artificial sequence
     24 <220> FEATURE:
     25 <223> OTHER INFORMATION: consensus zinc finger gene fragment
     27 <220> FEATURE:
     28 <221> NAME/KEY: misc_feature
     29 <222> LOCATION: (16)..(18)
     30 <223> OTHER INFORMATION: n=any nucleotide
     33 <220> FEATURE:
     34 <221> NAME/KEY: misc_feature
     35 <222> LOCATION: (25)..(27)
     36 <223> OTHER INFORMATION: n=any nucleotide
     39 <220> FEATURE:
     40 <221> NAME/KEY: misc_feature
     41 <222> LOCATION: (34)..(36)
     42 <223> OTHER INFORMATION: n=any nucleotide
     45 <400> SEQUENCE: 1
W--> 46 ctgacttcga aatcannntc gctgnnaat gttnnngtag tcgcatgctg ca          52
     49 <210> SEQ ID NO: 2
     50 <211> LENGTH: 15
     51 <212> TYPE: DNA
     52 <213> ORGANISM: Artificial sequence
     54 <220> FEATURE:
     55 <223> OTHER INFORMATION: PCR primer
     57 <400> SEQUENCE: 2
     58 gactgaagct ttagt                                                   15
     61 <210> SEQ ID NO: 3
     62 <211> LENGTH: 16
     63 <212> TYPE: DNA
     64 <213> ORGANISM: Artificial Sequence
     66 <220> FEATURE:
     67 <223> OTHER INFORMATION: PCR primer
```

(Pg-5)

RAW SEQUENCE LISTING   DATE: 08/08/2006
PATENT APPLICATION: US/10/518,174A   TIME: 13:53:28

Input Set : **N:\DA\10518174.raw.txt**
Output Set: **N:\CRF4\08082006\J518174A.raw**

```
 69 <400> SEQUENCE: 3
 70 gtcgctggtc tactac                                        16
 73 <210> SEQ ID NO: 4
 74 <211> LENGTH: 18
 75 <212> TYPE: DNA
 76 <213> ORGANISM: Artificial Sequence
 78 <220> FEATURE:
 79 <223> OTHER INFORMATION: partial complementary sequence to SEQ ID 1
 81 <220> FEATURE:
 82 <221> NAME/KEY: misc_feature
 83 <222> LOCATION: (16)..(18)
 84 <223> OTHER INFORMATION: nnn represents MAX codon (optimum codon usage
 85       for each amino acid in E. coli)
 88 <400> SEQUENCE: 4
W--> 89 gactgaagct ttagtnnn                                      18
 92 <210> SEQ ID NO: 5
 93 <211> LENGTH: 32
 94 <212> TYPE: DNA
 95 <213> ORGANISM: Artificial Sequence
 97 <220> FEATURE:
 98 <223> OTHER INFORMATION: complementary sequence to SEQ ID 3 and SEQ ID 6
 99       (partially)
101 <400> SEQUENCE: 5
102 catcagcgta cgacgtcagc gaccagatga tg                       32
105 <210> SEQ ID NO: 6
106 <211> LENGTH: 42
107 <212> TYPE: DNA
108 <213> ORGANISM: Artificial Sequence
110 <220> FEATURE:
111 <223> OTHER INFORMATION: consensus zinc finger gene fragment
113 <220> FEATURE:
114 <221> NAME/KEY: misc_feature
115 <222> LOCATION: (6)..(8)
116 <223> OTHER INFORMATION: n=any nucleotide
119 <220> FEATURE:
120 <221> NAME/KEY: misc_feature
121 <222> LOCATION: (15)..(17)
122 <223> OTHER INFORMATION: n=any nucleotide
125 <220> FEATURE:
126 <221> NAME/KEY: misc_feature
127 <222> LOCATION: (24)..(26)
128 <223> OTHER INFORMATION: n=any nucleotide
131 <400> SEQUENCE: 6
W--> 132 aatcannntc gctgnnnaat gttnnngtag tcgcatgctg ca           42
135 <210> SEQ ID NO: 7
136 <211> LENGTH: 15
137 <212> TYPE: DNA
138 <213> ORGANISM: Artificial Sequence
140 <220> FEATURE:
```

RAW SEQUENCE LISTING   ·DATE: 08/08/2006
PATENT APPLICATION: US/10/518,174A   TIME: 13:53:28

Input Set : **N:\DA\10518174.raw.txt**
Output Set: **N:\CRF4\08082006\J518174A.raw**

```
141 <223> OTHER INFORMATION: PCR primer
143 <400> SEQUENCE: 7
144 atgaccatga ttacg                                    15
147 <210> SEQ ID NO: 8
148 <211> LENGTH: 30
149 <212> TYPE: DNA
150 <213> ORGANISM: Artificial Sequence
152 <220> FEATURE:
153 <223> OTHER INFORMATION: complementary sequence to SEQ ID 7 and SEQ ID 1
154       (partially)
156 <400> SEQUENCE: 8
157 atgaccatga ttacgctatg ccatgactga                    30
160 <210> SEQ ID NO: 9
161 <211> LENGTH: 12
162 <212> TYPE: DNA
163 <213> ORGANISM: Artificial Sequence
165 <220> FEATURE:
166 <223> OTHER INFORMATION: partial complementary sequence to SEQ ID 1
168 <220> FEATURE:
169 <221> NAME/KEY: misc_feature
170 <222> LOCATION: (10)..(12)
171 <223> OTHER INFORMATION: nnn represents MAX codon (optimum codon usage for
172       each amino acid in E. coli)
175 <400> SEQUENCE: 9
```

W--> **176 agctttagtn nn   12**

```
179 <210> SEQ ID NO: 10
180 <211> LENGTH: 15
181 <212> TYPE: DNA
182 <213> ORGANISM: Artificial Sequence
184 <220> FEATURE:
185 <223> OTHER INFORMATION: PCR primer
187 <400> SEQUENCE: 10
188 acttgagact gaagc                                    15
191 <210> SEQ ID NO: 11
192 <211> LENGTH: 15
193 <212> TYPE: DNA
194 <213> ORGANISM: Artificial Sequence
196 <220> FEATURE:
197 <223> OTHER INFORMATION: PCR primer
199 <400> SEQUENCE: 11
200 gcatgctaga ctgcc                                    15
203 <210> SEQ ID NO: 12
204 <211> LENGTH: 21
205 <212> TYPE: DNA
206 <213> ORGANISM: Artificial Sequence
208 <220> FEATURE:
209 <223> OTHER INFORMATION: complementary sequence to SEQ ID 11 and SEQ ID 13
210       (partially)
212 <400> SEQUENCE: 12
```

RAW SEQUENCE LISTING   DATE: 08/08/2006
PATENT APPLICATION: US/10/518,174A   TIME: 13:53:28

Input Set : **N:\DA\10518174.raw.txt**
Output Set: **N:\CRF4\08082006\J518174A.raw**

```
213 catcagcgta cgatctgacg c                                           21
216 <210> SEQ ID NO: 13
217 <211> LENGTH: 39
218 <212> TYPE: DNA
219 <213> ORGANISM: Artificial Sequence
221 <220> FEATURE:
222 <223> OTHER INFORMATION: consensus zinc finger gene fragment
224 <220> FEATURE:
225 <221> NAME/KEY: misc_feature
226 <222> LOCATION: (13)..(15)
227 <223> OTHER INFORMATION: n=any nucleotide
230 <220> FEATURE:
231 <221> NAME/KEY: misc_feature
232 <222> LOCATION: (22)..(24)
233 <223> OTHER INFORMATION: n=any nucleotide
236 <220> FEATURE:
237 <221> NAME/KEY: misc_feature
238 <222> LOCATION: (31)..(33)
239 <223> OTHER INFORMATION: n=any nucleotide
242 <400> SEQUENCE: 13
W--> 243 acttcgaaat cannntcgct gnnnaatgtt nnngtagtc                    39
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 08/08/2006
PATENT APPLICATION: US/10/518,174A   TIME: 13:53:29

Input Set : N:\DA\10518174.raw.txt
Output Set: N:\CRF4\08082006\J518174A.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 16,17,18,25,26,27,34,35,36
Seq#:4; N Pos. 16,17,18
Seq#:6; N Pos. 6,7,8,15,16,17,24,25,26
Seq#:9; N Pos. 10,11,12
Seq#:13; N Pos. 13,14,15,22,23,24,31,32,33

VERIFICATION SUMMARY   DATE: 08/08/2006
PATENT APPLICATION: **US/10/518,174A**   TIME: 13:53:29

Input Set : **N:\DA\10518174.raw.txt**
Output Set: **N:\CRF4\08082006\J518174A.raw**

L:9 M:270 C: Current Application Number differs, Replaced Current Application Number
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:46 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:89 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:132 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:176 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:243 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0

Raw Sequence Listing before editing (for reference only)

IFWP

RAW SEQUENCE LISTING　　　　　　　　DATE: 08/03/2006
PATENT APPLICATION:　US/10/518,174A　　TIME: 09:19:00

Input Set : **F:\P713888US_PCT_amended_seqs.txt**
Output Set: **N:\CRF4\08032006\J518174A.raw**

```
        3 <110> APPLICANT: Aston University
        5 <120> TITLE OF INVENTION: Methods of Producing DNA and Protein Libraries
        7 <130> FILE REFERENCE: W071488PPC
C-->    9 <140> CURRENT APPLICATION NUMBER: US/10/518,174A
C-->   10 <141> CURRENT FILING DATE: 2004-12-13
       12 <150> PRIOR APPLICATION NUMBER: GB0213816.2
       13 <151> PRIOR FILING DATE: 2002-06-14
       15 <160> NUMBER OF SEQ ID NOS: 13
       17 <170> SOFTWARE: PatentIn version 3.1
```

Does Not Comply Corrected Diskette Needed (pg-1)

ERRORED SEQUENCES

```
       92 <210> SEQ ID NO: 5
       93 <211> LENGTH: 32
       94 <212> TYPE: DNA
       95 <213> ORGANISM: Artificial Sequence
       97 <220> FEATURE:
       98 <223> OTHER INFORMATION: complementary sequence to SEQ ID 3 and SEQ ID 6
       99       (partially)
E-->  101 <400> SEQUENCE: 5
      102 catcagcgta cgacgtcagc gaccagatga tg                              32
```

VERIFICATION SUMMARY   DATE: 08/03/2006
PATENT APPLICATION: **US/10/518,174A**   TIME: 09:19:01

Input Set : **F:\P713888US_PCT_amended_seqs.txt**
Output Set: **N:\CRF4\08032006\J518174A.raw**

L:9 M:270 C: Current Application Number differs, Replaced Current Application Number
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:46 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:89 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:101 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:5 differs:4
L:132 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:176 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:243 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0